

PATENT ABSTRACTS OF JAPAN

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(54) LIPSTICK COMPOSITION

(57)Abstract:

PURPOSE: To obtain a lipstick composition excellent in feeling of use, makeup durability and preventing effects on color staining.

CONSTITUTION: This lipstick composition contains (A) a volatile silicone oil, e.g. octamethylcyclotetrasiloxane or decamethylcyclopentasiloxane, (B) dimethylsilylated silicic acid anhydride and/or silicone-treated silicic acid anhydride and (C) a powder usually used in a makeup cosmetic. The amounts of the ingredients based on 100 pts.wt. cosmetic are 20-70 pts.wt. ingredient (A), 0.1-10 pts.wt. ingredient (B) and 0.1-20 pts.wt. ingredient (C). The dimethylsilylated silicic acid anhydride is obtained by carrying out the vapor treatment of the surface of silicic acid anhydride with, e.g. dimethylchlorosilane. The silicone-treated silicic acid anhydride is obtained by carrying out the coating treatment of silicic acid anhydride with dimethylpolysiloxane, methylhydrogenpolysiloxane or cyclic silicones. Furthermore, a water-soluble salt of alginic acid and a bi- or a trivalent metallic salt in an amount of 0.1-5 pts.wt. total amount of both are preferably contained in the composition.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to a lip-stick constituent and the lip-stick constituent which was excellent in a feeling of use, makeup rice cake, and the color change prevention effect in more detail.

[0002]

[Description of the Prior Art] The function of original of a lip-stick constituent colors a lip, the color of the face is shown well, and it is in directing a gay expression. In addition to the original function, in the present when the women who work are increasing in number, the requests to the durability, i.e., the makeup rice cake, of the makeup effect are mounting. Moreover, improvement is desired also about the so-called color change phenomenon in which the color of a lip-stick constituent moves to a cup, a filter or clothes of tobacco, etc.

[0003] Although it is common to carry out abundant combination of a formed element and the adhesive component among oily components or to blend powder so much as a method of improving the makeup rice cake of a lip-stick constituent, it is not desirable that the mileage at the time of an application becomes heavy, and a feeling's of stickiness increases etc. in respect of a feeling of use. Moreover, although makeup rice cake and raising the color change prevention effect are also considered by blending a silicic acid anhydride with a lip-stick constituent, since the front face of a silicic acid anhydride is hydrophilic, the lip-stick constituent which blended this with the top where it is difficult in a lip-stick constituent to distribute uniformly will become what is rough, burns at the time of an application, and has a fault on feels, such as a feeling of a stain. Although there is JP,61-246112,A as technology for obtaining the lip-stick constituent excellent in makeup rice cake and the color change prevention effect the lip-stick constituent obtained by this technology is nonvolatile -- an oil content -- replacing with -- a part for a volatile oil, and a solid, in order to use it combining an oil content and to blend a color pigment so much if the time after an application passes -- a mist coat film -- a solid -- an oil content and fine particles turn into a subject, it is constituted, and there is a trouble of sensing a remarkable feeling of dryness, and although further excelled in the color change prevention effect, it also has the fault of separating simply by friction and falling

[0004] Furthermore, as technology for a feeling of use being good and preventing messy makeup, it is about a lip-stick constituent. Although there is JP,6-15452,B, this uses specific organic silicone resin with volatile silicon oil and powder is added to this, the volatile silicon oil used as the solvent of this organic silicone resin volatilizes with the passage of time after an application, and there is a trouble that stickiness of organic silicone resin will come out, and the color change prevention effect is not enough, either. on the other hand, it excels in makeup rice cake, and there is JP,5-178722,A as technology for preventing a color change, and makeup rice cake and the color change prevention effect hyperviscosity-ize this with the moisture supplied from the outside after polyether denaturation silicone's applying, and improve -- since the moisture supplied from the outside is a minute amount upwards and the moisture is crawled by the oily component contained in the charge of oily makeup By the time a paint film

hyperviscosity-izes and the target effect is discovered, it will become what requires most time, and the demand of a user is not filled.

[0005]

[Problem(s) to be Solved by the Invention] As a result of it inquired wholeheartedly for the purpose of obtaining the lip-stick constituent which is excellent in a feeling of use, makeup rice cake, and a color change prevention effect in view of such a situation, this invention person etc. finds out that the lip-stick constituent excellent in a feeling of use, makeup rice cake, and a color change prevention effect is obtained, and came complete this invention based on this knowledge by blending powder with volatile silicon oil, a dimethylsilyl-ized silicic acid anhydride, and/or a siliconization silicic acid anhydride.

[0006]

[Means for Solving the Problem] The claims 1 of this invention for attaining the above-mentioned purpose are volatile silicon oil, a dimethylsilyl-ized silicic acid anhydride and/or a siliconization silicic acid anhydride, and a lip-stick constituent characterized by containing powder.

[0007] Moreover, the claim 2 of this invention is a lip-stick constituent with which a lip-stick constituent according to claim 1 is characterized by containing the water-soluble salt of an alginic acid, and a 2 - trivalent metal salt further.

[0008] Hereafter, the lip-stick constituent of this invention is explained in detail. The volatile silicone used for the lip-stick constituent of this invention is the annular silicone of 4 - a hexamer, as the example, octamethylcyclotetrasiloxane, decamethyl cyclopentasiloxane, tetramethyl tetrahydrogen cyclotetrasiloxane, etc. are mentioned, and a kind or two sorts or more are used among these. 20 - 70 weight section of loadings is desirable to the charge of makeup 100 weight section of the range in which it excels in improvement in improvement of a feeling of use, makeup ****, and the color change prevention effect, and the color change after an application does not occur further.

[0009] The dimethylsilyl-ized silicic acid anhydride used for the lip-stick constituent of this invention is obtained by carrying out gaseous-phase surface treatment of the silicic acid anhydride for example, in a dimethyl chlorosilane. Moreover, a siliconization silicic acid anhydride is obtained by the method of heat-treating by the case what carried out covering processing of the silicic acid anhydride in a gaseous phase or the liquid phase by dimethylpolysiloxane, methyl hydrogen polysiloxane, and annular silicone, the method of introducing various kinds of pendant machines into a front face, after carrying out surface treatment with the compound which has a methyl hydrogen siloxane skeleton, etc. As an amount of siliconization in that case, 1 - 30 weight section is desirable to the silicic-acid-anhydride 100 weight section.

[0010] As first [an average of] particle diameter of a dimethylsilyl-ized silicic acid anhydride and a siliconization silicic acid anhydride, the thing in the range of 5-300nm is desirable. As a measuring method of a particle diameter, a scanning electron microscope (SEM) or the method of measuring by transmission-electron-microscope (transverse electromagnetic) observation is mentioned. These loadings are excellent in improvement-of a feeling of use, and improvement in the color change prevention effect, and suppress stickiness further, and its 0.1 - 10 weight section is desirable to the charge of makeup 100 weight section of the range which is not heavy.

[0011] If the powder used for the lip-stick constituent of this invention is powder generally used for the charge of makeup makeup, it will not be cared about. As the example, organic powder, such as inorganic powder, such as talc, a mica, a kaolin, a calcium carbonate, a zinc white, a titanium dioxide, red ocher, a yellow iron oxide, a black iron oxide, ultramarine blue, a bismuth oxychloride, and a titanium-mica system pearl pigment, tar coloring matter, its lakes, nylon powder, and silk powder, can be mentioned. The loadings have the enough makeup effect and its 0.1 - 20 weight section is desirable to the charge of makeup 100 weight section of the range which passes while mileage is not heavy, and does not feel a feeling of dryness by the time.

[0012] It is desirable to blend the water-soluble salt of an alginic acid and a 2 - trivalent metal salt with the lip-stick constituent of this invention further in addition to the above-mentioned component. As a water-soluble salt of an alginic acid, there are a sodium alginate, a potassium alginate, an ammonium alginate, etc. The molecular weight of an alginic acid is 50,000-200,000 preferably, although especially

a limit is not carried out. As a 2 - trivalent metal salt, a calcium chloride, a calcium carbonate, a calcium lactate, a calcium pantothenate, a calcium sulfate, citric-acid calcium, an aluminum chloride, an aluminum sulfate, an iron lactate, the first iron sodium of a citric acid, etc. are mentioned. The loadings of the water-soluble salt of an alginic acid and a 2 - trivalent metal salt have desirable 0.1 - 5 weight section respectively to the charge of makeup 100 weight section. Moreover, although 1:5-5:1 are desirable as for the ratio of the water-soluble salt of an alginic acid, and a 2 - trivalent metal salt, 1:2- especially 2:1 are desirable.

[0013] It responds to the lip-stick constituent of this invention at the purpose other than the above, and is a book.

[0014] The lip-stick constituent of this invention is applicable to the lip stick of a solid and the shape of a paste of oiliness or an emulsification system, and which liquefied various pharmaceutical forms.

[0015]

[Example] Hereafter, although an example explains this invention to a detail further, thereby, this invention is not limited. In addition, weight % shows the loadings described below.

[0016] Examples 1-3, the examples 1-3 (oily solid lip stick) of comparison

[0017] The example and the example of comparison of an oily solid lip stick are shown in Table 1. In addition, as an example of comparison, it evaluated by preparing the oily solid lip stick using the technology of a publication, respectively to JP,61-246112,A (example 1 of comparison), JP,5-178722,A (example 2 of comparison), and JP,6-15452,B (example 3 of comparison).

[0018]

[Table 1]

成分名	配合量					
	実施例			比較例		
	1	2	3	1	2	3
キャンデリラロウ	1.0	1.0	1.0	1.0	1.0	1.0
固形パラフィン	8.0	8.0	8.0	8.0	8.0	8.0
セレスシン	6.0	6.0	6.0	6.0	6.0	6.0
スクワラン	5.0	5.0	5.0	5.0	25.0	5.0
ヒマシ油	19.8	38.3	20.8	—	41.8	28.8
トリメチルシロキシケイ酸 (化1)	—	—	—	—	—	3.0
ポリエーテル変性シリコーン (化2)	—	—	—	—	10.0	—
オクタメチルシクロテトラ シロキサン	—	20.0	40.0	—	—	40.0
デカメチルシクロペンタシロキサン	50.0	10.0	—	51.8	—	—
抗酸化剤	0.1	0.1	0.1	0.1	0.1	0.1
香料	0.1	0.1	0.1	0.1	0.1	0.1
酸化チタン	2.0	2.0	2.0	2.0	2.0	2.0
赤色201号	2.0	2.0	2.0	2.0	2.0	2.0
赤色202号	1.0	1.0	1.0	1.0	1.0	1.0
黄色4号アルミニウムレーキ	3.0	3.0	3.0	3.0	3.0	3.0
雲母チタン	—	—	—	10.0	—	—
ベンガラ被覆雲母チタン	—	—	—	10.0	—	—
ジメチルシリル化無水ケイ酸	2.0	—	5.0	—	—	—
シリコーン処理無水ケイ酸 (ジメチルポリシロキサン処理)	—	0.5	5.0	—	—	—
アルギン酸カリウム	—	2.0	0.5	—	—	—
硫酸カルシウム	—	1.0	0.5	—	—	—

[0019]

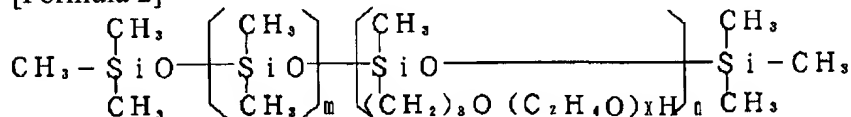
[Formula 1]

(CH₃)₃SiO_{1/2}単位: SiO₂単位=1.5:1

からなるトリメチルシロキシケイ酸

[0020]

[Formula 2]



[0021] (However, m=50-100, n=1-5, x=7-15 and 17% of polyoxyethylene content, average molecular weight 8000)

[0022] (The manufacture method) The oily component in Table 1 was heated at 95 degrees C, and it dissolved uniformly, and a powder component and perfume were added to this, and it mixed and deaerated. This was slushed into metal mold, after cooling solidification, the container was filled up and the oily solid lip stick was obtained.

[0023] By ten female panelists, the error criterion of Table 2 estimated each item of the makeup rice

cake 4 hours after an application about the obtained oily solid lip stick in a feeling of use, and the color change difficulty of carrying out 1 hour after an application.

[0024]

[Table 2]

評 価	判 定
◎	10名中8名以上が良好と評価した
○	10名中6名以上が良好と評価した
△	10名中4名以上が良好と評価した
×	10名中3名以下が良好と評価した

[0025] The evaluation result of examples 1-3 and the examples 1-3 of comparison is shown in Table 3.

[0026]

[Table 3]

評価項目	実施例			比較例		
	1	2	3	1	2	3
のびの軽さ	◎	○	○	△	○	○
べたつきにくさ	◎	◎	○	○	△	△
しっとり感	○	◎	◎	×	○	△
化粧もち	○	○	◎	×	○	○
色移りにくさ	◎	◎	◎	◎	△	△

[0027] The oily solid lip stick of this invention was excellent in admiration, makeup rice cake, and the color change prevention effect gently in the lightness of elongation, and the difficulty of being sticky compared with the example of comparison so that clearly from Table 3.

[0028] Examples 4-5, the examples 4-5 (oily paste-like lip stick) of comparison

[0029] The example and the example of comparison of an oily paste-like lip stick are shown in Table 4. In addition, it evaluated by preparing the usual oily paste-like lip stick and the lip stick which replaced with a part for a volatile oil for the fixed oil [a part of] as an example of comparison, respectively.

[0030]

[Table 4]

成 分 名	配合量			
	実施例		比較例	
	4	5	4	5
ポリエチレンワックス	4.0	4.0	4.0	4.0
セレシン	8.0	8.0	8.0	8.0
キャンデリラロウ	7.0	7.0	7.0	7.0
カルナバロウ	1.0	1.0	1.0	1.0
ヒマシ油	10.0	10.0	30.0	30.0
液状ラノリン	10.0	10.0	10.0	10.0
流動パラフィン	19.8	5.8	30.8	—
デキストリンパルミチン酸エステル	1.0	1.0	1.0	1.0
デカメチルシクロペンタシロキサン	30.0	40.0	—	30.8
抗酸化剤	0.1	0.1	0.1	0.1
香料	0.1	0.1	0.1	0.1
酸化チタン	2.0	2.0	2.0	2.0
赤色201号	2.0	2.0	2.0	2.0
赤色202号	1.0	1.0	1.0	1.0
黄色4号アルミニウムレーキ	3.0	3.0	3.0	3.0
シリコーン処理無水ケイ酸 (メチルハイドロジェン ポリシロキサン処理)	1.0	3.0	—	—
アルギン酸カリウム	—	1.0	—	—
パントテン酸カルシウム	—	1.0	—	—

[0031] (The manufacture method) The oily component in Table 4 was heated at 85 degrees C, and it dissolved uniformly, and a powder component and perfume were added to this, and it mixed and deaerated. After cooling this, the container was filled up and the oily paste-like lip stick was obtained.

[0032] The evaluation same about the obtained oily paste-like lip stick as an example 1 was performed. The result is shown in Table 5.

[0033]

[Table 5]

評価項目	実施例		比較例	
	4	5	4	5
のびの軽さ	○	◎	△	○
べたつきにくさ	◎	◎	△	○
しっとり感	◎	○	◎	△
化粧もち	○	◎	△	△
色移りしにくさ	◎	◎	×	△

[0034] The oily paste-like lip stick of this invention was excellent in admiration, makeup rice cake, and the color change prevention effect gently in the lightness of elongation, and the difficulty of being sticky

compared with the example of comparison so that clearly from Table 5.

[0035] Examples 6-7, the example 6 (oily liquefied lip stick) of comparison

[0036] The example and the example of comparison of an oily liquefied lip stick are shown in Table 6.

[0037]

[Table 6]

成 分 名	配合量		
	実施例		比較例
	6	7	6
ジメチルポリシロキサン 2 c s	—	—	20.0
デカメチルシクロペンタシロキサン	55.0	55.0	35.0
トリメチルシロキシケイ酸 (化3)	—	—	20.0
液状ラノリン	5.0	5.0	5.0
ヒマシ油	13.8	6.3	3.8
グリセリルトリイソステアレート	8.0	8.0	8.0
抗酸化剤	0.1	0.1	0.1
香料	0.1	0.1	0.1
酸化チタン	2.0	2.0	2.0
赤色201号	2.0	2.0	2.0
赤色202号	1.0	1.0	1.0
黄色4号アルミニウムレーキ	3.0	3.0	3.0
ジメチルシリル化無水ケイ酸	10.0	10.0	—
アルギン酸ナトリウム	—	2.5	—
硫酸カルシウム	—	5.0	—

[0038]

[Formula 3]

$(CH_3)_3SiO_{1/2}$ 単位: SiO_2 単位 = 0.5 : 1

からなるトリメチルシロキシケイ酸

[0039] (Manufacturing method) The oily component in Table 6 was heated at 85 degrees C, and it dissolved uniformly, and the powder component was added to this, and it mixed and deaerated. The container after cooling was filled up with this and the oily liquefied lip stick was obtained.

[0040] The evaluation same about the obtained oily liquefied lip stick as an example 1 was performed. The result is shown in Table 7.

[0041]

[Table 7]

評価項目	実施例		比較例
	6	7	6
のびの軽さ	◎	○	○
べたつきにくさ	◎	◎	△
しっとり感	◎	◎	○
化粧もち	○	◎	△
色移りしにくさ	○	◎	△

[0042] The oily liquefied lip stick of this invention was excellent in admiration, makeup rice cake, and the color change prevention effect gently in the lightness of elongation, and the difficulty of being sticky compared with the example of comparison so that clearly from Table 7.

[0043] Examples 8-9, the example 7 (emulsification solid lip stick) of comparison

[0044] The example and the example of comparison of an emulsification solid lip stick are shown in Table 8.

[0045]

[Table 8]

成分名	配合量		
	実施例		比較例
	8	9	7
ポリエチレンワックス	7.0	7.0	7.0
セレシン	4.0	4.0	4.0
キャンデリラロウ	7.0	7.0	7.0
カルナバロウ	1.0	1.0	1.0
ヒマシ油	—	—	20.0
流動パラフィン	11.8	10.4	23.8
グリセロールトリステアレート	20.0	20.0	20.0
オクタメチルシクロテトラシロキサン	30.0	30.0	—
抗酸化剤	0.1	0.1	0.1
香料	0.1	0.1	0.1
酸化チタン	2.0	2.0	2.0
赤色201号	2.0	2.0	2.0
赤色202号	1.0	1.0	1.0
黄色4号アルミニウムレーキ	3.0	3.0	3.0
ジメチルシリル化無水ケイ酸	2.0	3.0	—
アルギン酸ナトリウム	—	0.2	—
硫酸カルシウム	—	0.2	—
ソルビタンセスキオレエート	2.0	2.0	2.0
純水	3.0	3.0	3.0
プロピレングリコール	2.0	2.0	2.0
ソルビット	2.0	2.0	2.0

[0046] (Manufacturing method) The oily component of Table 8 was heated at 90 degrees C, and it dissolved uniformly, and subsequently the powder component was added and it distributed. furthermore, a water-soluble component and perfume -- 80 degrees C -- gradually -- adding -- a homomixer -- 10,000r.p.m. -- it stirred for 10 minutes After deaerating it, the container was filled up, cooling solidification was carried out and the emulsification solid lip stick was obtained.

[0047] The evaluation same about the obtained emulsification solid lip stick as an example 1 was performed. The result is shown in Table 9.

[0048]

[Table 9]

評価項目	実施例		比較例
	8	9	7
のびの軽さ	◎	○	×
べたつきにくさ	◎	◎	△
しっとり感	○	◎	○
化粧もち	○	○	△
色移りしにくさ	◎	◎	×

[0049] The emulsification solid lip stick of this invention was excellent in admiration, makeup rice cake, and the color change prevention effect gently in the lightness of elongation, and the difficulty of being sticky compared with the example of comparison so that clearly from Table 9.

[0050]

[Effect of the Invention] this invention of offer [the lip stick which is excellent in a feeling of use, makeup rice cake, and the color change prevention effect] is above clear like a publication.

[Translation done.]